

FIG. 1

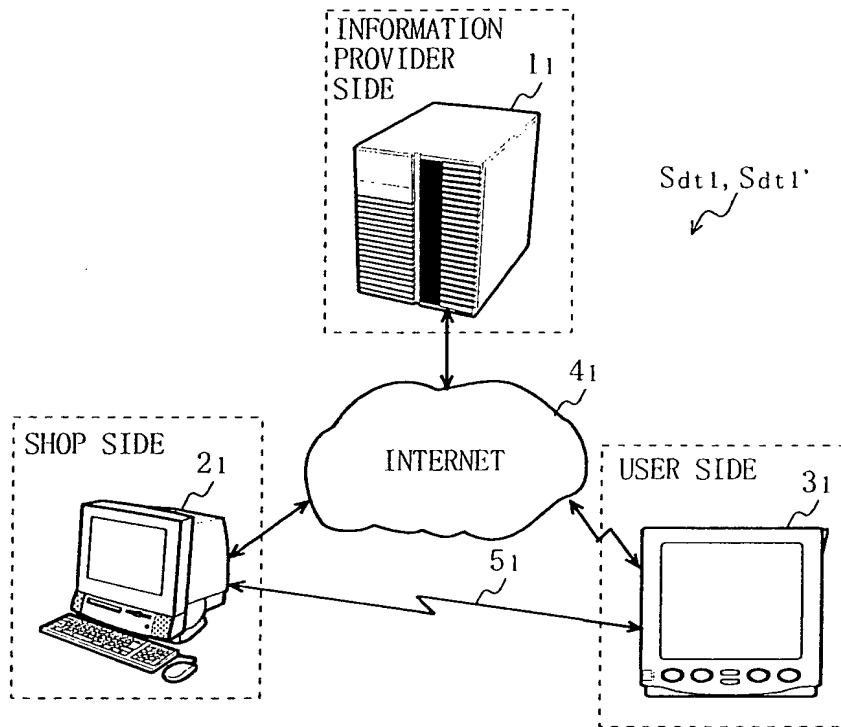


FIG. 2

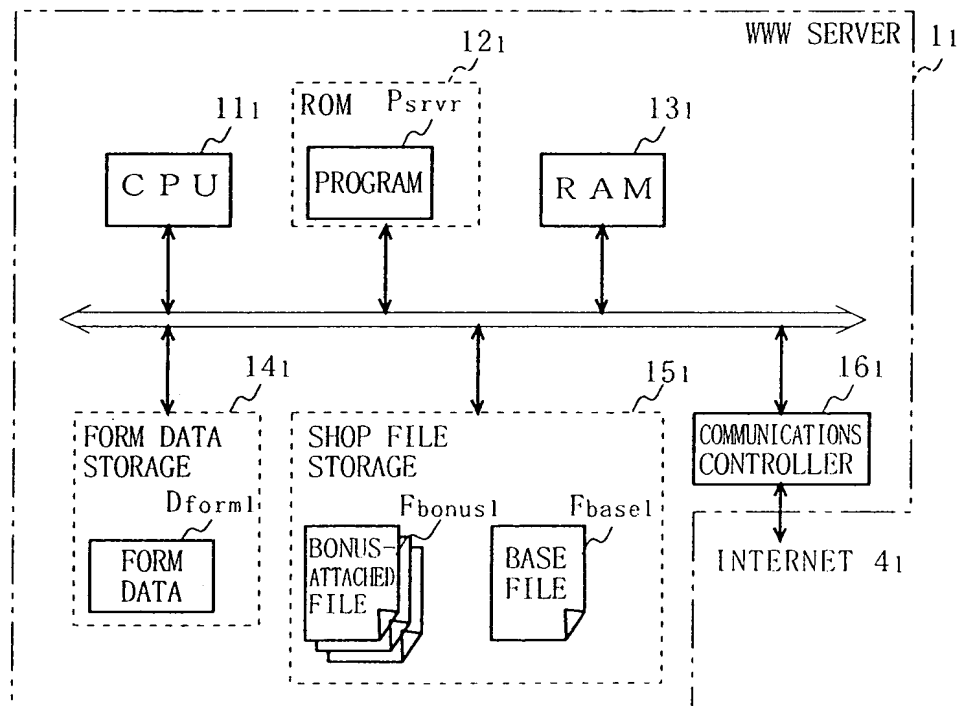


FIG. 3A

SHOP NAME

Cname

SHOP INFORMATION

Cinfo

BONUS DETAILS

Ccob

BONUS IDENTIFIER
IDbonus

Ciob

TRANSMISSION

Btx1

Finl

FIG. 3B

PUB X

BONUS

BRING DATA TERMINAL EQUIPMENT 3 WITH THE
FOLLOWING BONUS IDENTIFIER IDbonus RECORDED
THEREON. YOU WILL GET THE BONUS BELOW.

-20% OFF ON MEAL CHARGES

BONUS IDENTIFIER IDbonus:yyy

MAP AROUND THE SHOP

Y STATION

PUB X

INshop1

FIG. 4

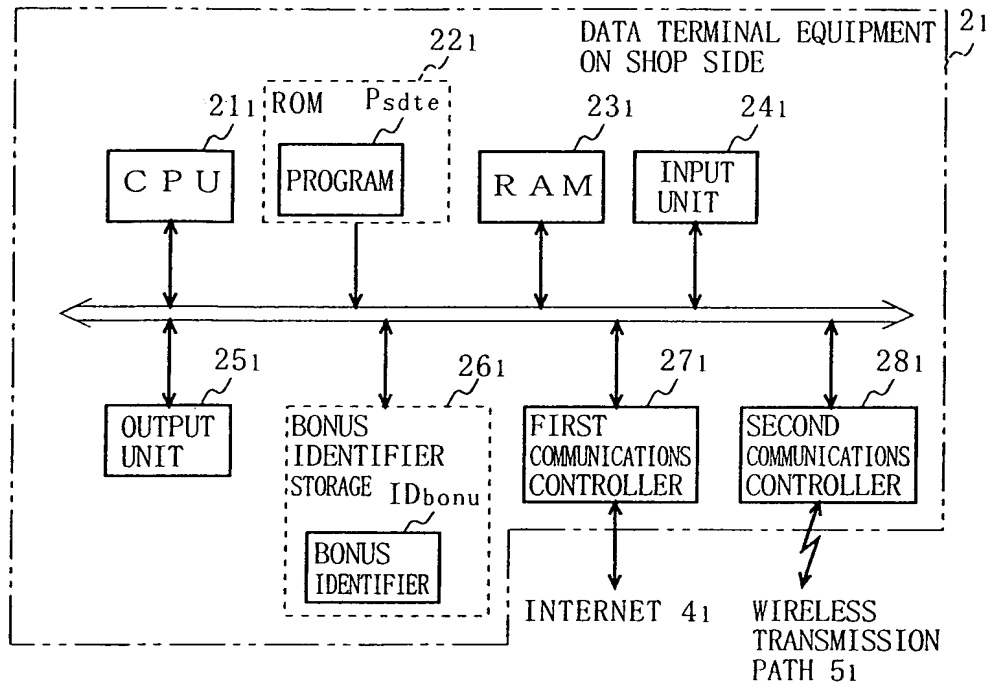


FIG. 5

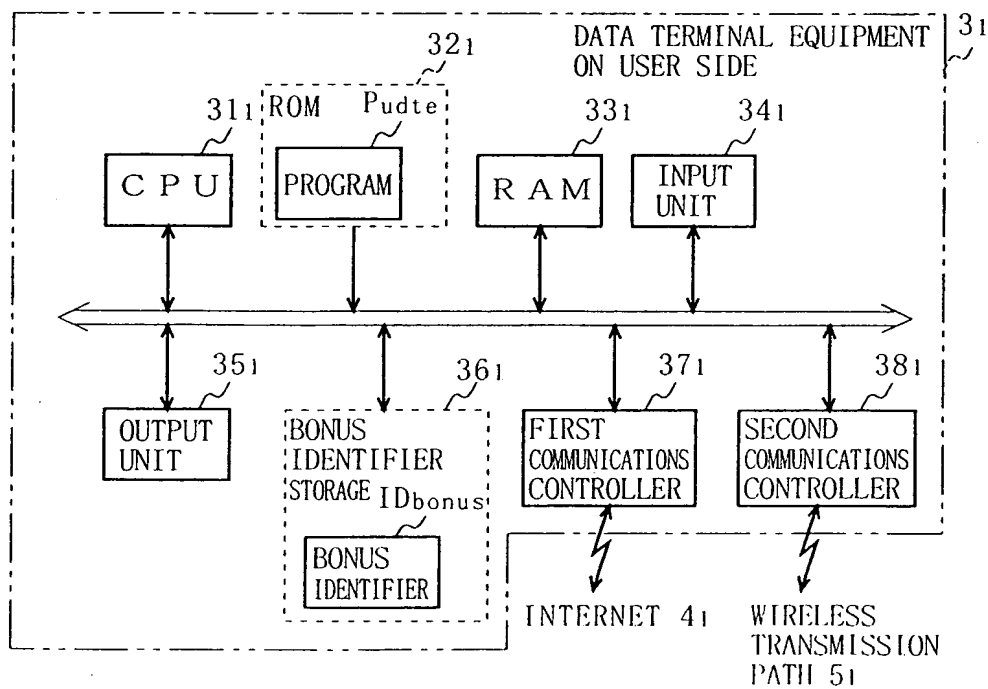


FIG. 6

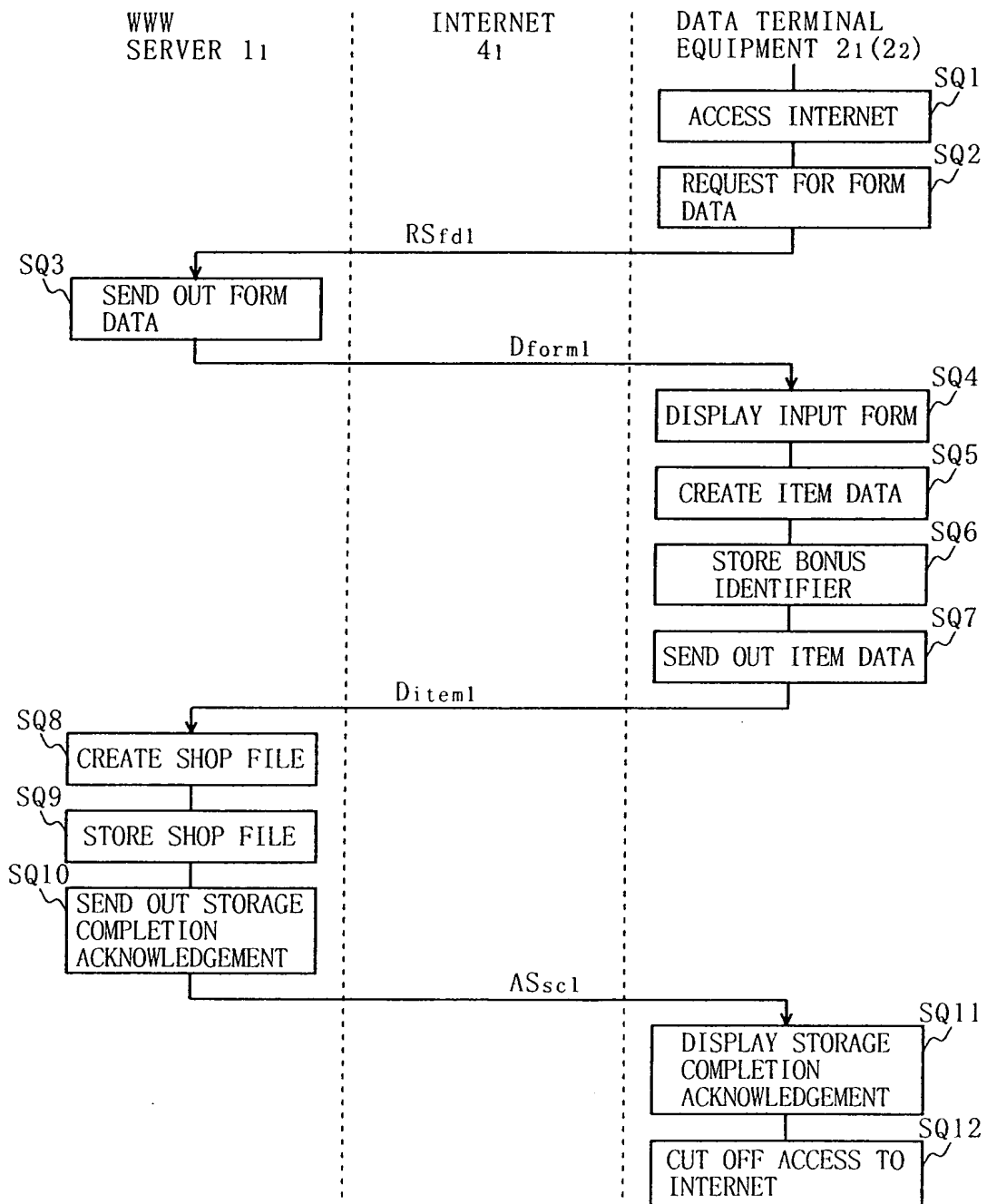


FIG. 7

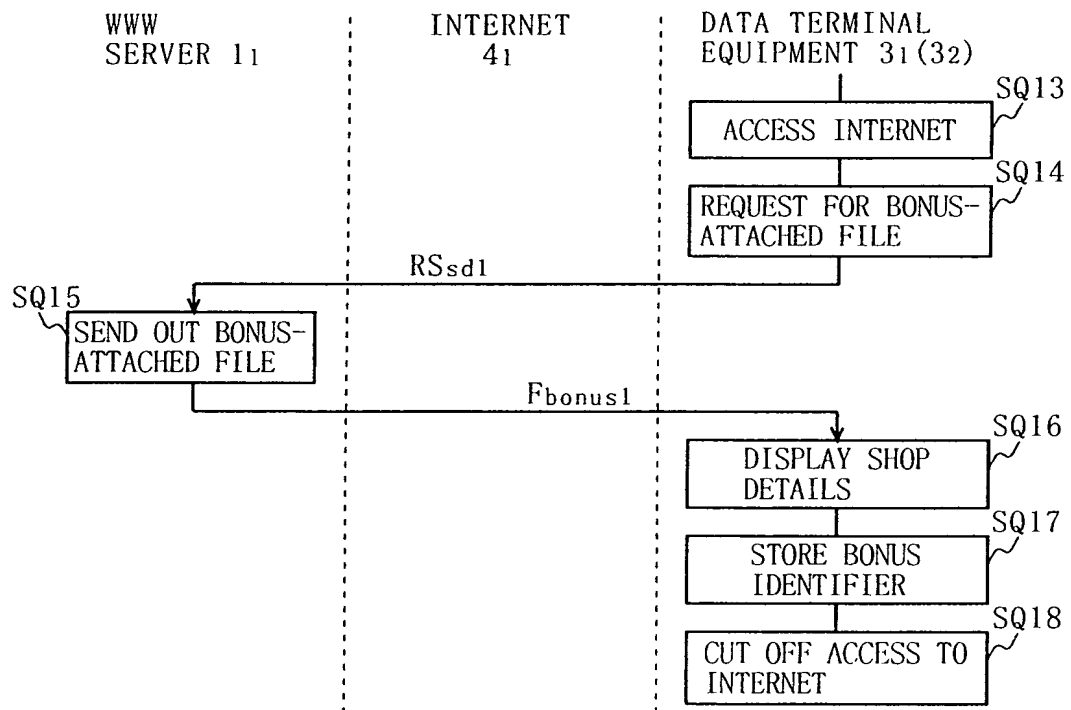


FIG. 8

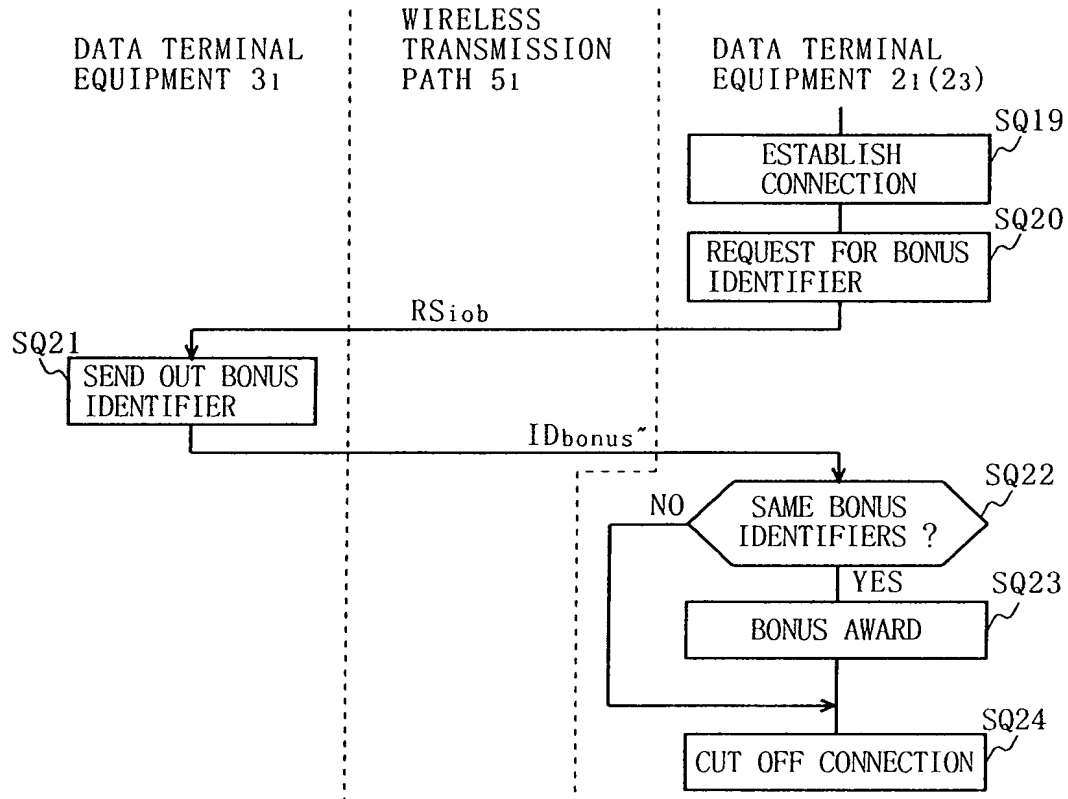


FIG. 9

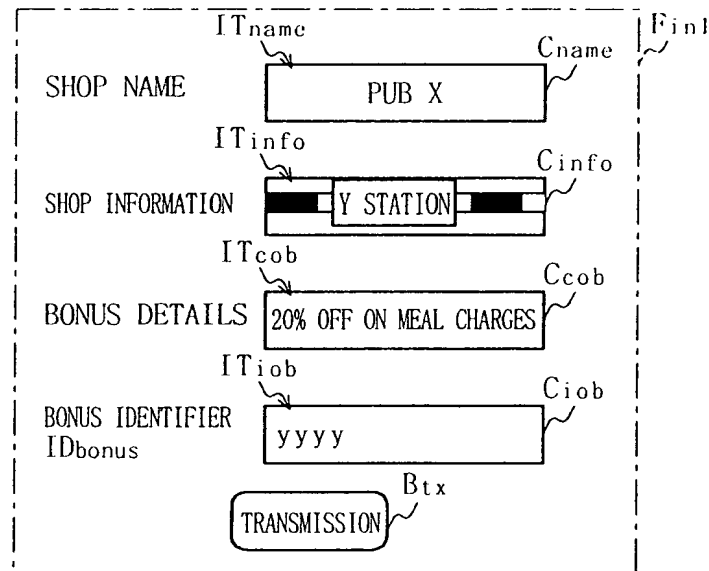


FIG. 10

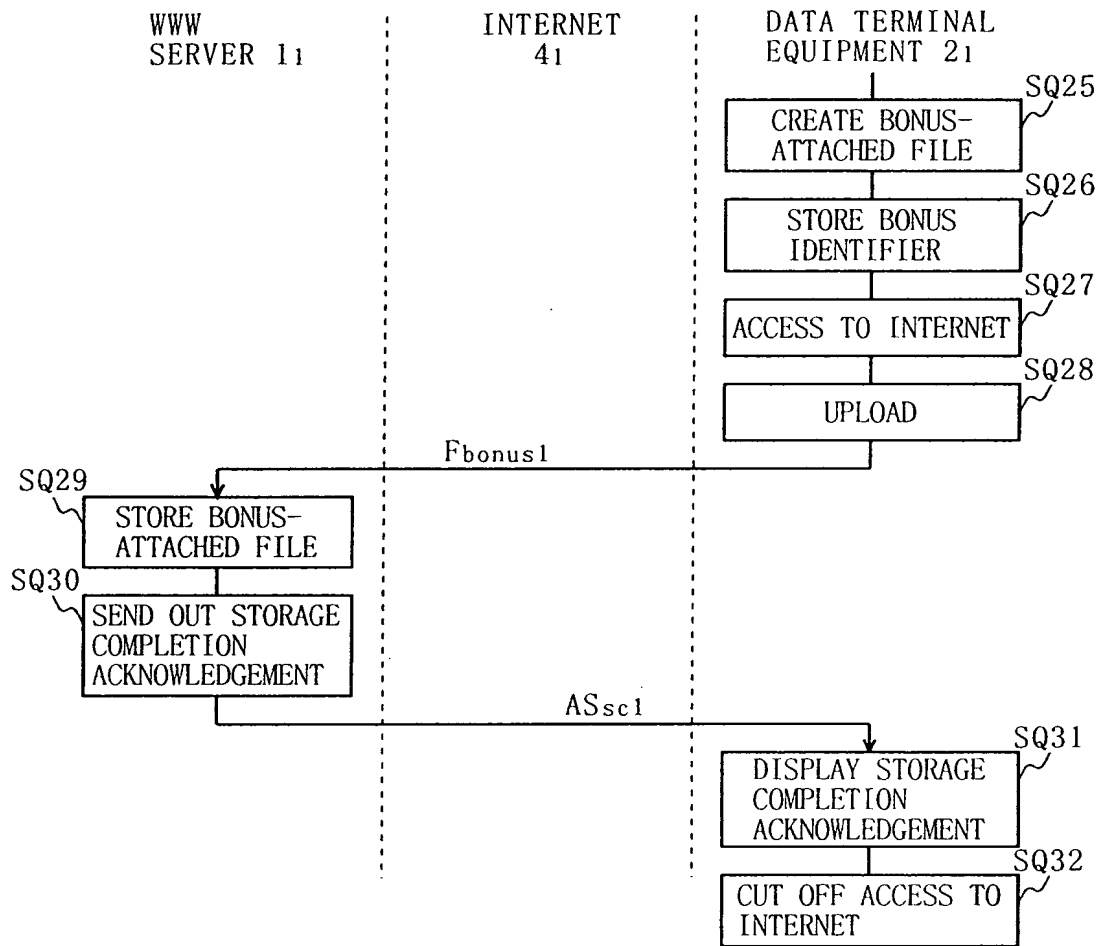


FIG. 11

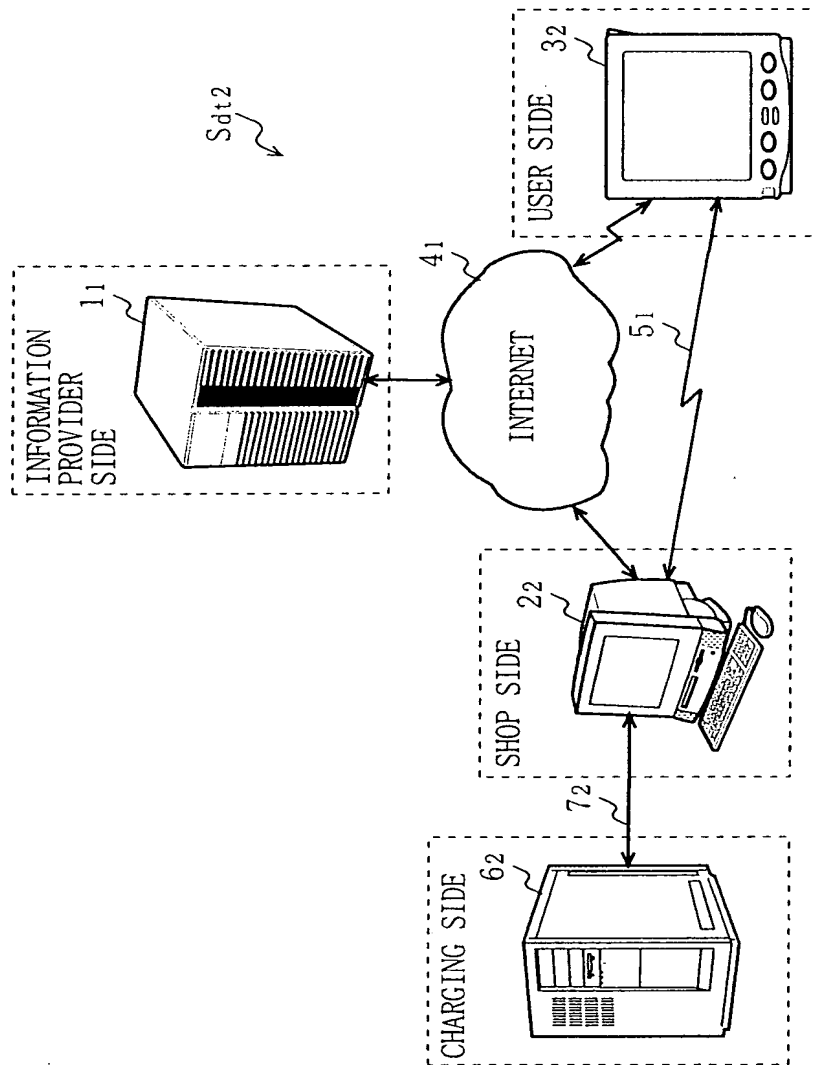


FIG. 12

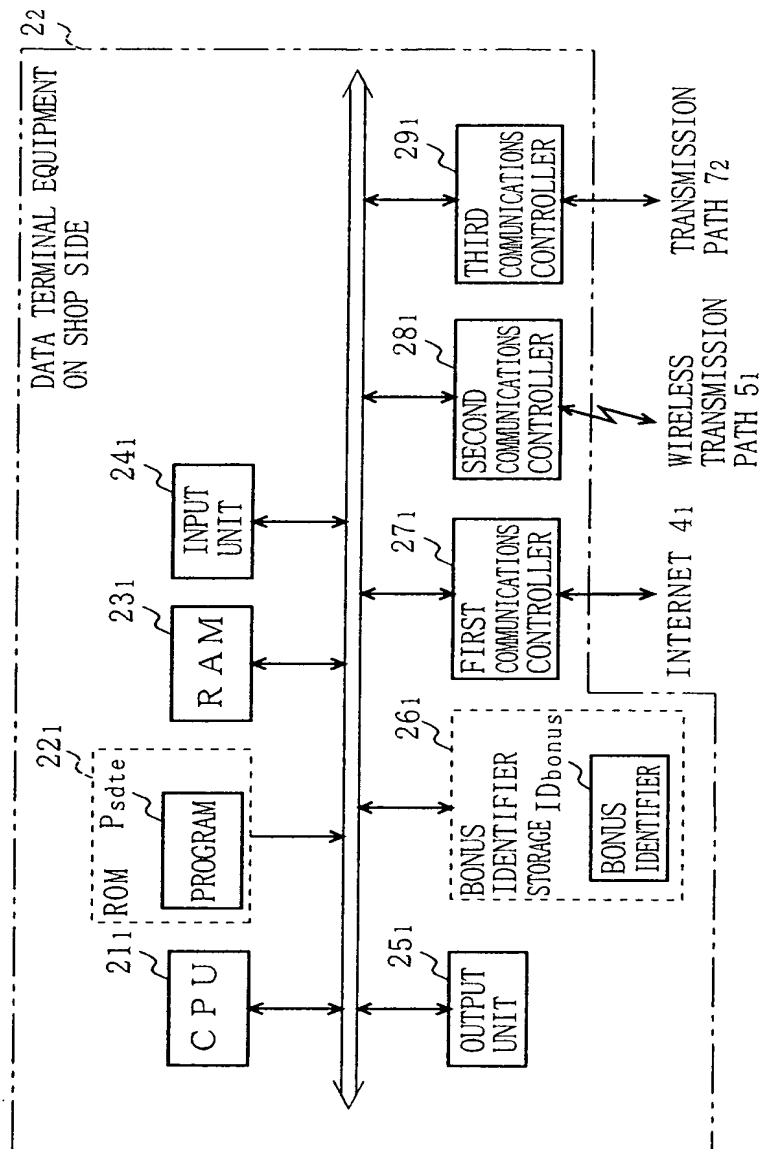
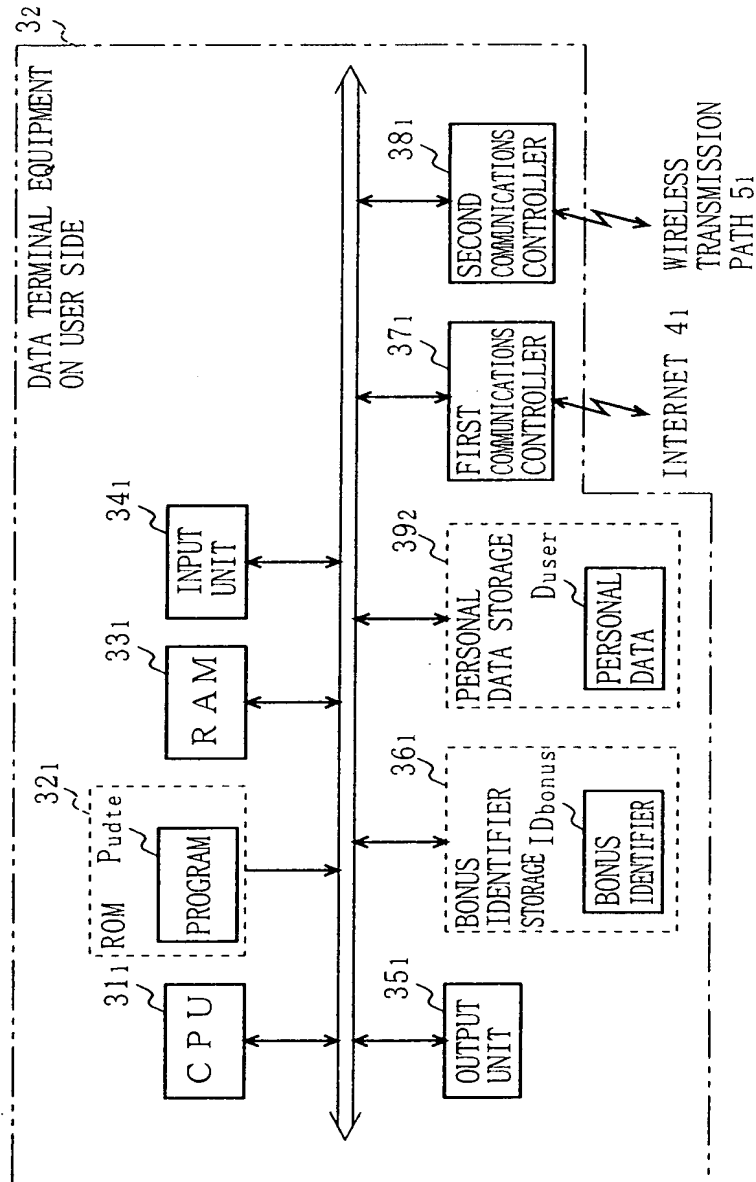
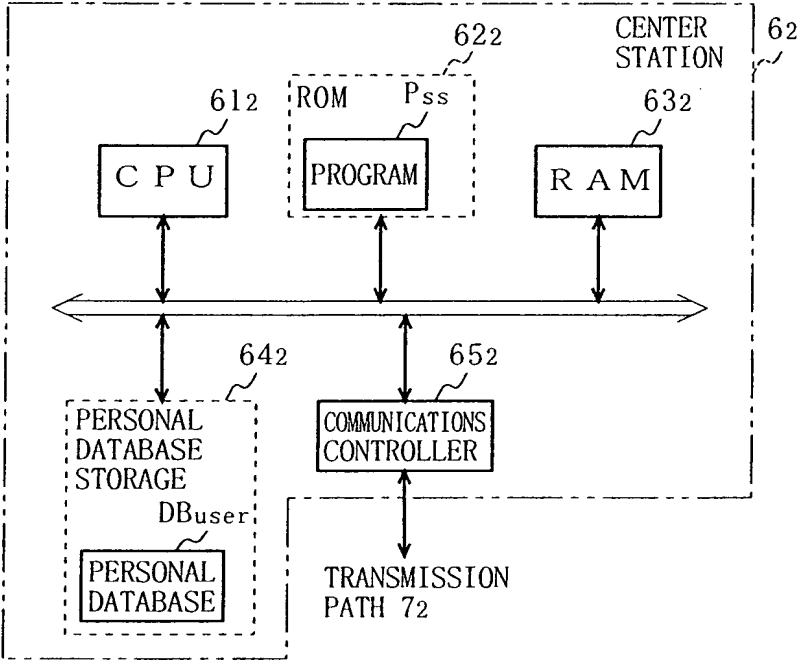


FIG. 13



F I G. 1 4 A



F I G. 1 4 B

DB_{user}

PERSONAL DATA D _{user}		STATUS DATA D _{stat}		
CREDIT CARD NUMBER	VALID DATE	DATE USED	SHOP NAME	CHARGE AMOUNT
Runit21 { WWXXYYZZ	YY1/MM1	MM1/DD1	PUB X	\$100
Runit21 { WWYYXXZZ	YY2/MM2	MM2/DD2	RESTAURANT Z	\$200
{ ⋮ ⋮	{ ⋮ ⋮	{ ⋮ ⋮	{ ⋮ ⋮	{ ⋮ ⋮
Runit21 { WWXXYYZZ	YY1/MM1	MM3/DD3	DEPARTMENT Y	\$320

FIG. 15

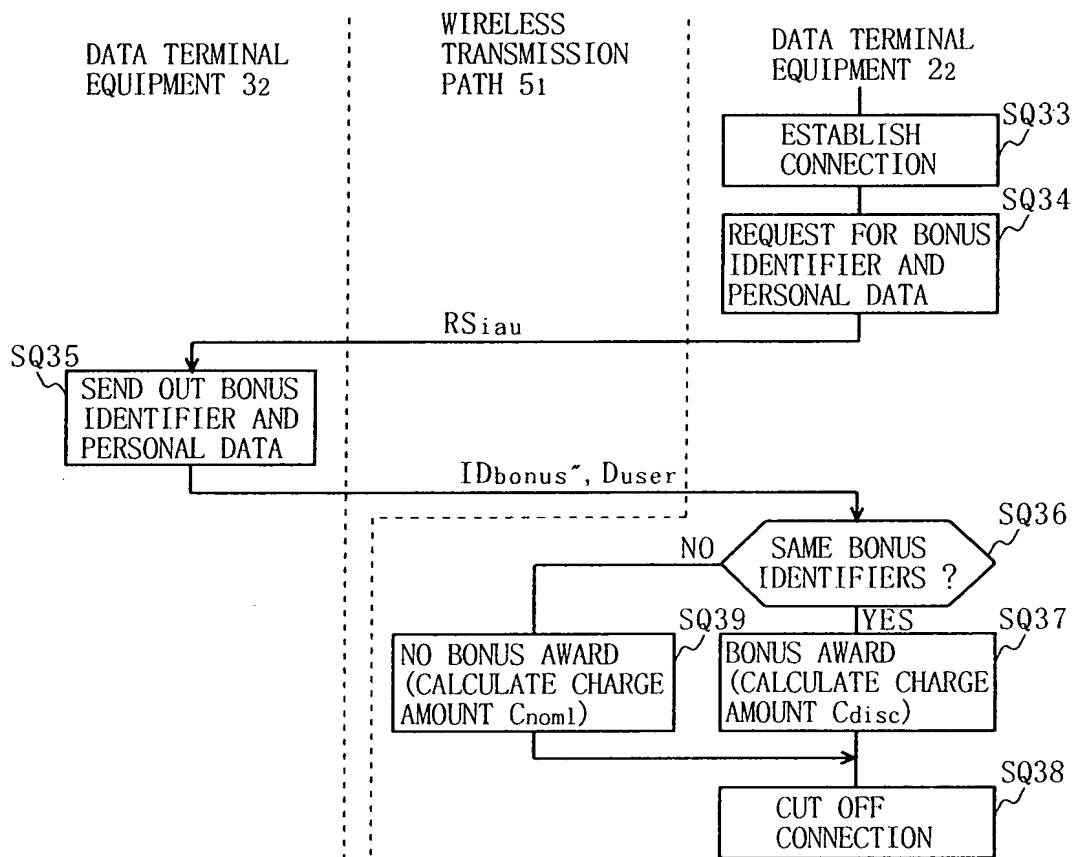


FIG. 16

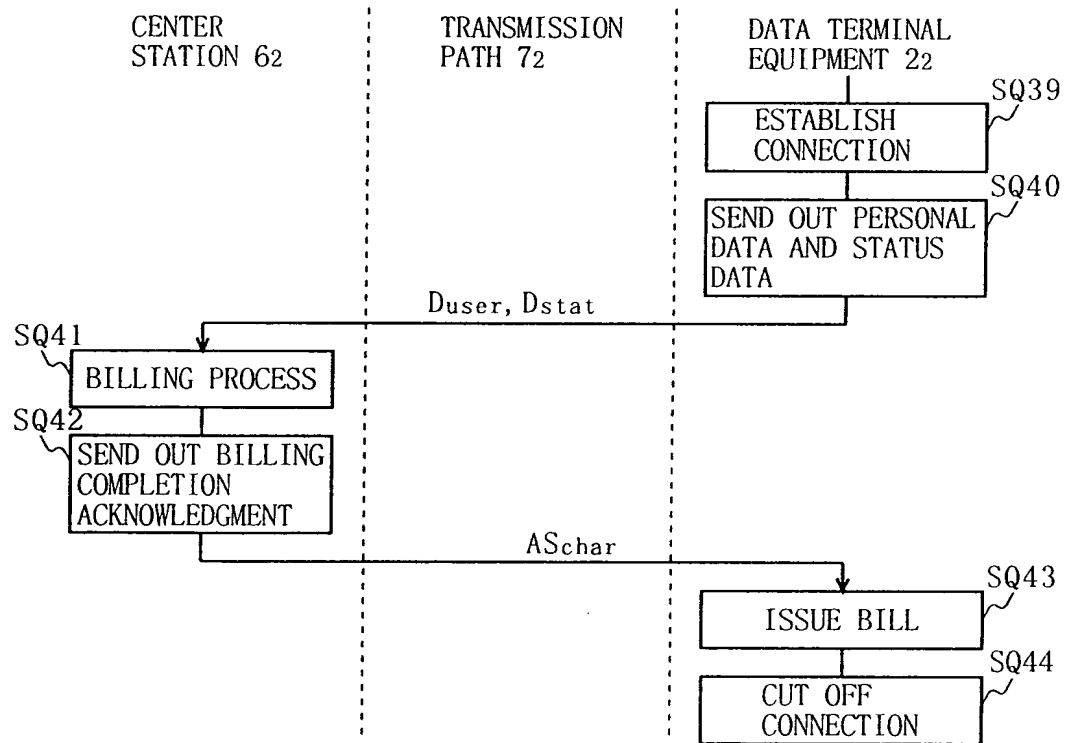


FIG. 17

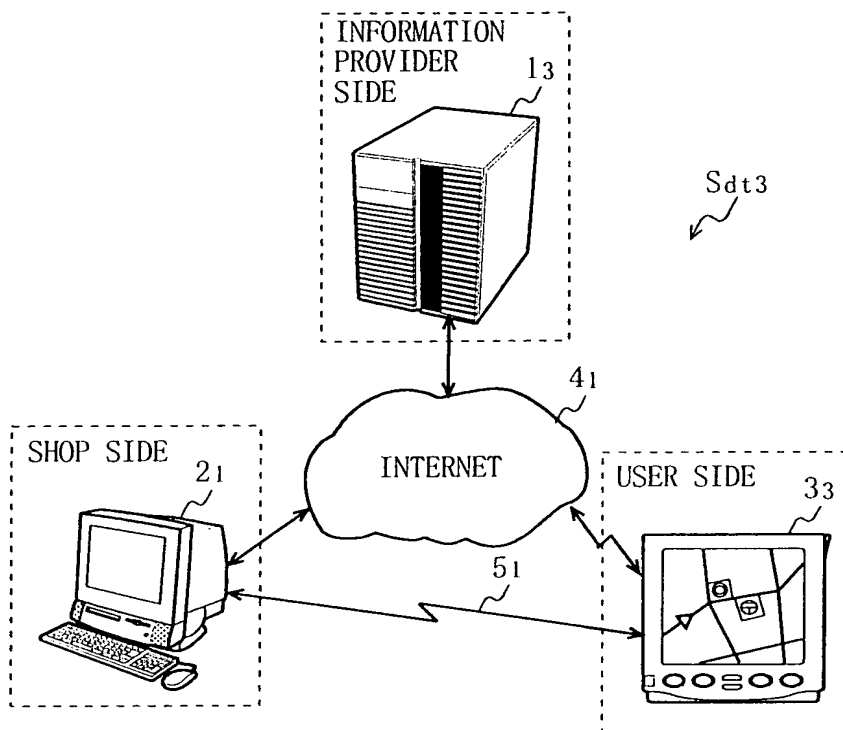


FIG. 18

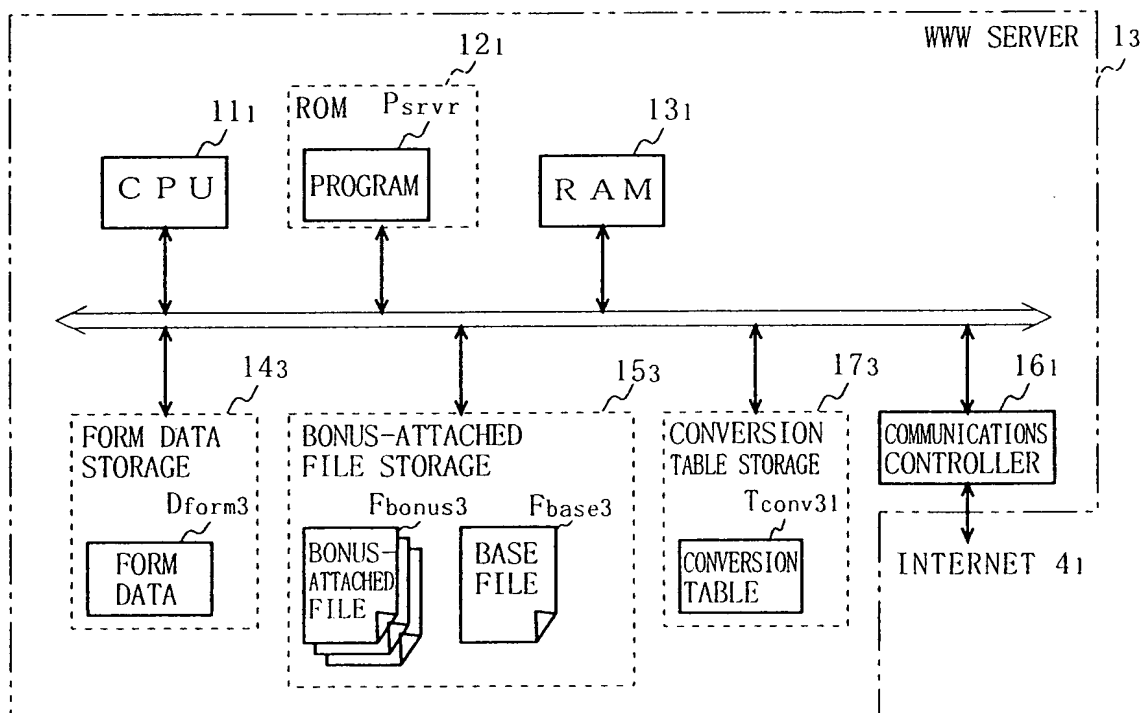


FIG. 19A

FIG. 19A is a schematic diagram of a form layout. It consists of a dashed rectangular border. Inside, there are four input fields arranged vertically. The first field is labeled "SHOP NAME" to its left and "Cname" to its right. The second field is labeled "SHOP ADDRESS" to its left and "Caddr" to its right. The third field is labeled "BONUS DETAILS" to its left and "Cnote" to its right. Below these three fields is a rounded rectangular button labeled "TRANSMISSION" with "Btx3" to its right. A bracket on the right side of the dashed border is labeled "Fin3".

FIG. 19B

FIG. 19B is a schematic diagram of the same form layout as FIG. 19A, but with specific data entered into the fields. The first field, labeled "SHOP NAME" and "Cname", contains the text "PUB X" and has "ITname" above it with an arrow pointing to the field. The second field, labeled "SHOP ADDRESS" and "Caddr", contains the text "# P AVE. Q CITY" and has "ITaddr" above it with an arrow pointing to the field. The third field, labeled "BONUS DETAILS" and "Cnote", contains the text "BONUS; MEAL CHARGES" and has "ITnote" above it with an arrow pointing to the field. The "TRANSMISSION" button with "Btx3" remains at the bottom. The bracket on the right side of the dashed border is labeled "Fin3".

FIG. 20A

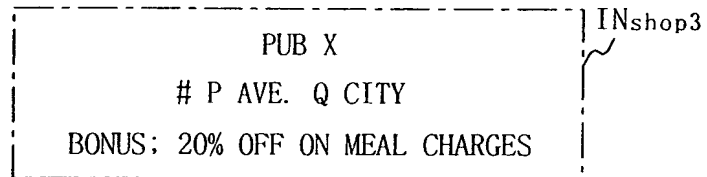


FIG. 20B

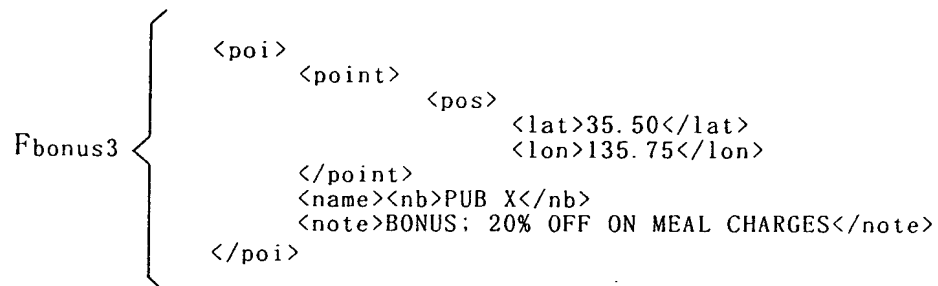


FIG. 21A

Tconv31

	SHOP ADDRESS (ITEM IAddr)	REPRESENTATIVE SHOP POSITION Ptype (LATITUDE, LONGITUDE)
Runit31 {	# P AVE. Q CITY	(35. 50, 135. 75)
Runit31 {	# R AVE. S CITY	(37. 30, 136. 65)
	⋮	⋮
Runit31 {	# T AVE. U CITY	(36. 45, 135. 63)

FIG. 21B

Tconv32

	REPRESENTATIVE SHOP POSITION Ptype (LATITUDE, LONGITUDE)	SHOP ADDRESS (ITEM IAddr)
Runit32 {	(35. 50, 135. 75)	# P AVE. Q CITY
Runit32 {	(37. 30, 136. 65)	# R AVE. S CITY
	⋮	⋮
Runit32 {	(36. 45, 135. 63)	# T AVE. U CITY

FIG. 22

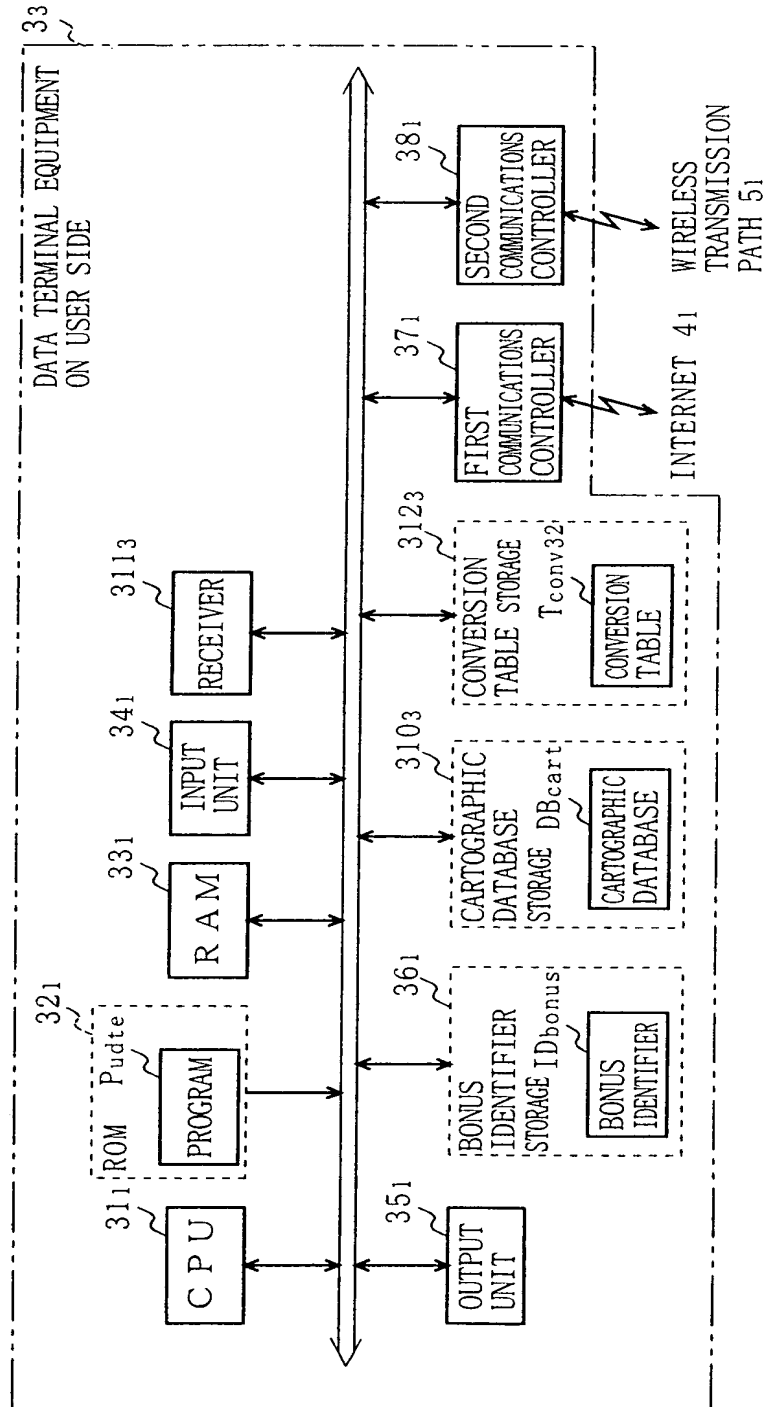


FIG. 23

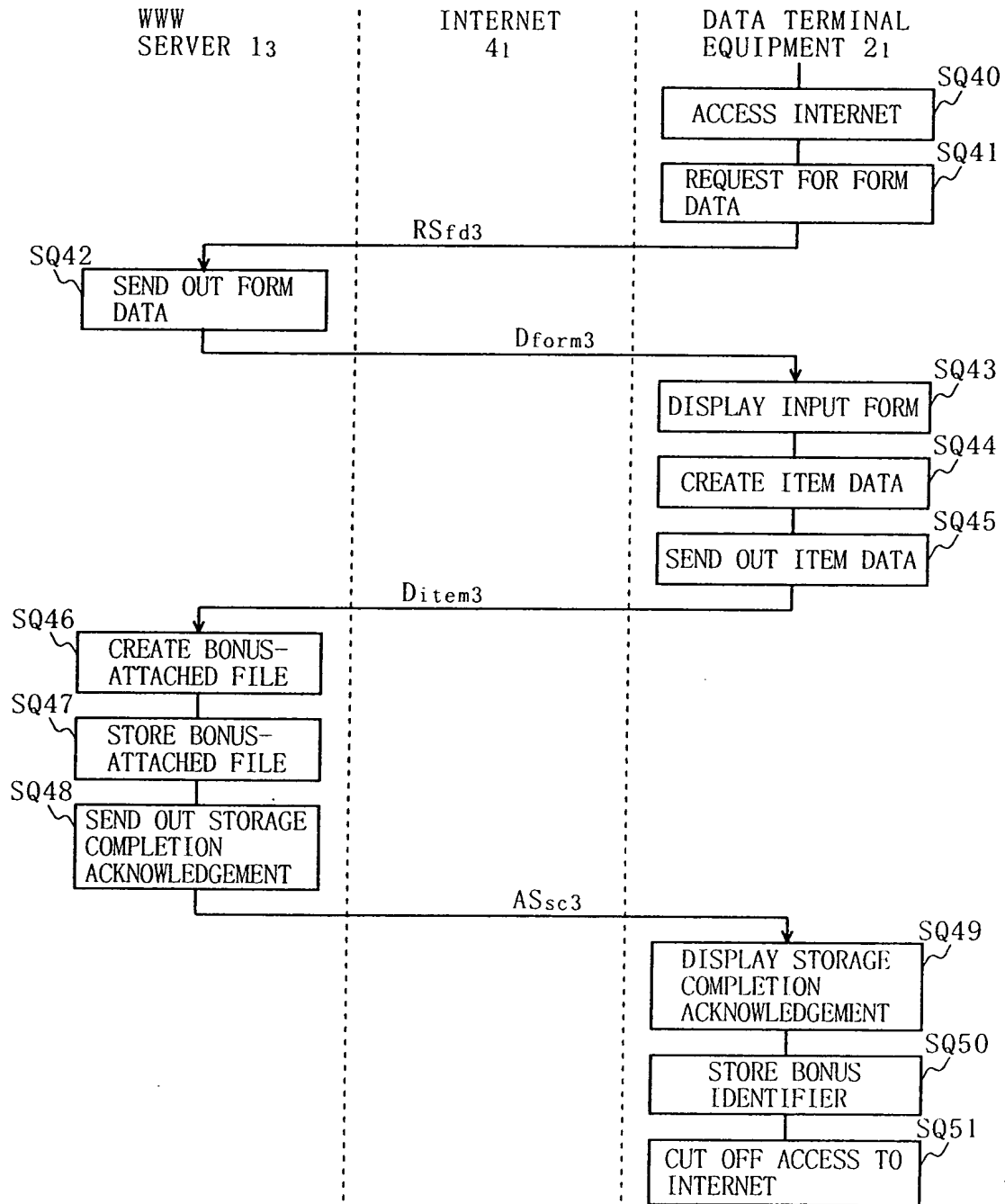


FIG. 24

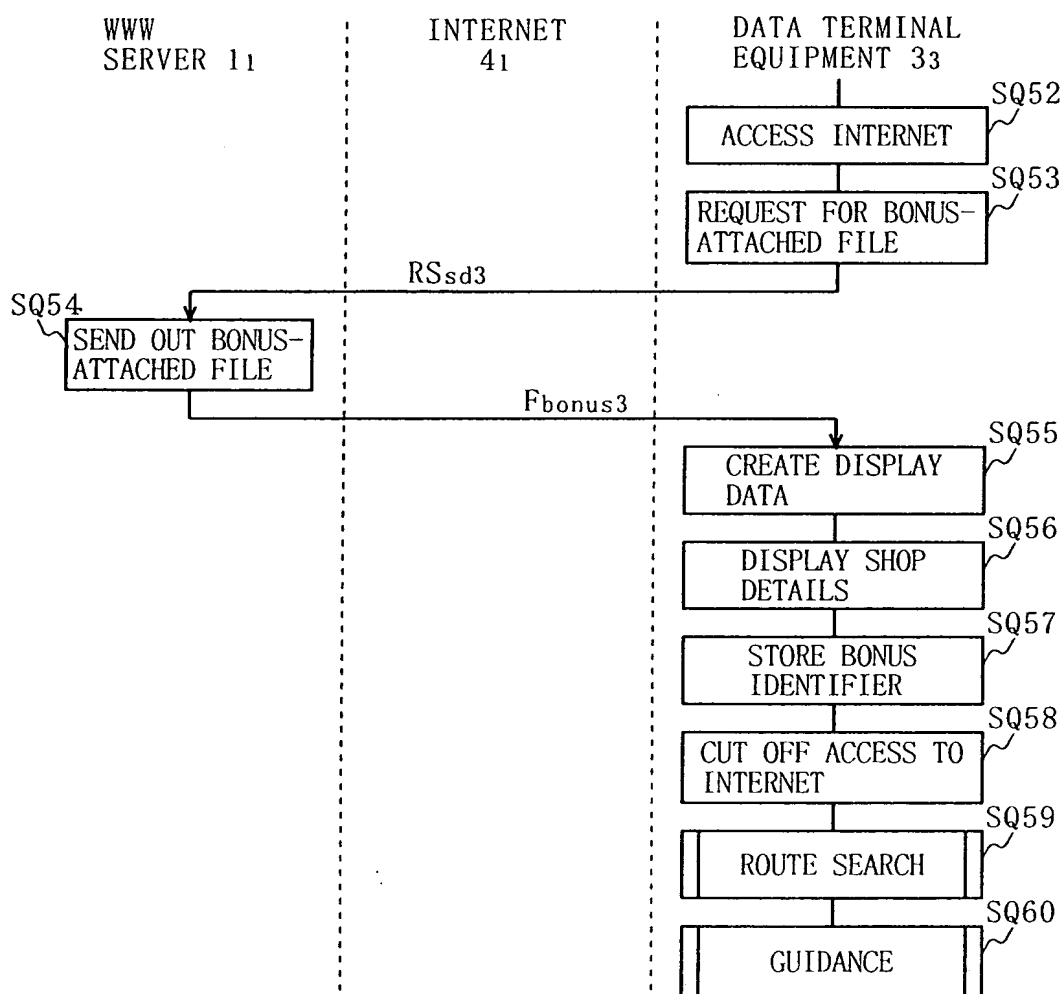


FIG. 25

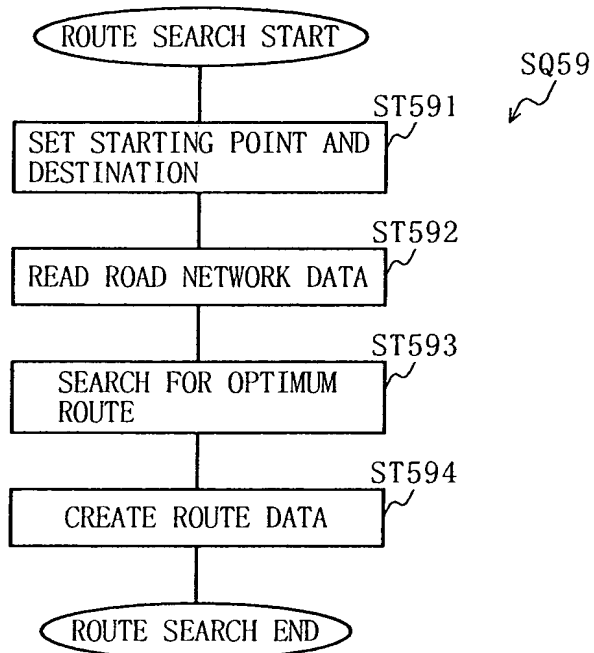


FIG. 26

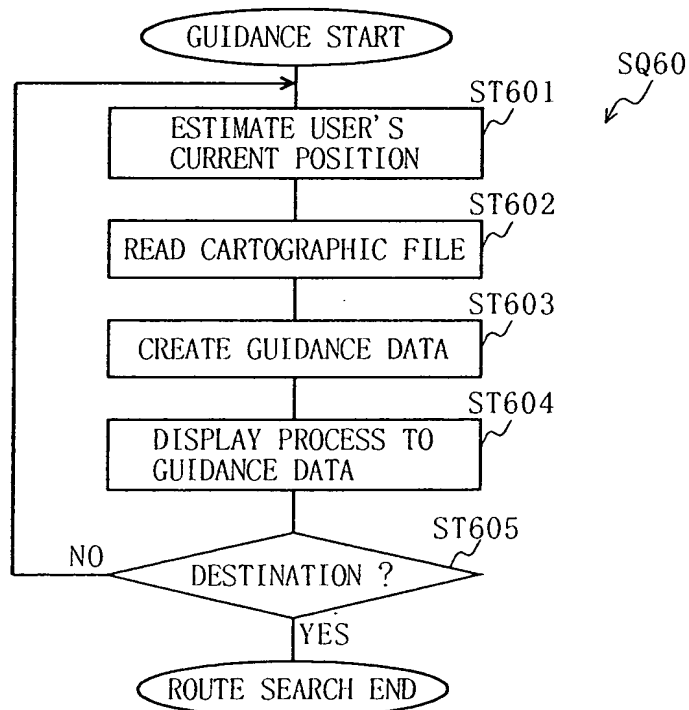


FIG. 27A PRIOR ART

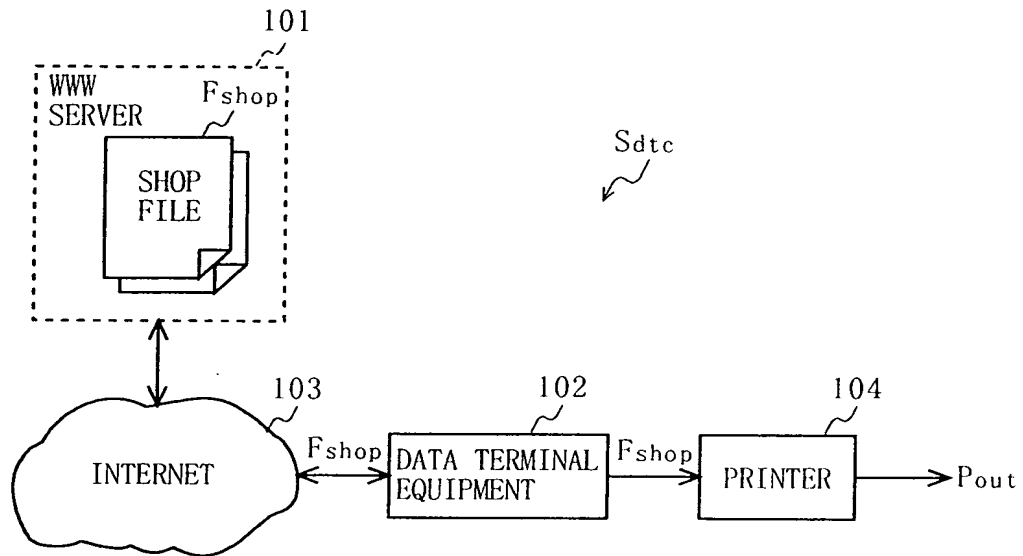


FIG. 27B PRIOR ART

